

Title (en)
LAST CAR BREAKAWAY PROTECTION SYSTEM

Title (de)
LOSBRECHSCHUTZSYSTEM FÜR LETZTEN WAGEN

Title (fr)
SYSTEME DE PROTECTION POUR RUPTURE D'ATTELAGE DE LA DERNIERE VOITURE

Publication
EP 1879779 B1 20160713 (EN)

Application
EP 06720193 A 20060203

Priority
• US 2006003763 W 20060203
• US 67965305 P 20050511

Abstract (en)
[origin: WO2006124083A2] A train including a brake pipe and an electrical train line extending from at least one locomotive through at least first and second cars which are adjacent to each other, the first and second cars each include a brake cylinder, reservoir and a brake valve. The first car includes an electro-pneumatic brake valve which is responsive to electric signals on the train line to produce a first car pneumatic apply brake signal from the first reservoir and release brake signal for the first brake cylinder and the brake signal pipe. The first car also includes a first valve to transmit the first brake signals to the brake signal pipe and to isolate the connection to the brake signal pipe for a breakaway at one of the cars. The second car includes a pneumatic brake control valve which is responsive to the first car pneumatic brake signals on the brake signal pipe and brake pipe pressure in the brake pipe to produce a second car pneumatic apply and release brake signals for the second brake cylinder corresponding to the first apply and release brake signals. The pneumatic brake control valve also produces a second car pneumatic apply brake signal from the second reservoir for an emergency pressure in the brake pipe and no brake signal on the brake signal pipe.

IPC 8 full level
B60T 13/00 (2006.01); **B60T 13/66** (2006.01); **B60T 17/18** (2006.01); **B60T 17/22** (2006.01)

CPC (source: EP US)
B60T 13/665 (2013.01 - EP US); **B60T 17/18** (2013.01 - EP US); **B60T 17/228** (2013.01 - EP US)

Cited by
CN110641433A; CN115214583A

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2006124083 A2 20061123; **WO 2006124083 A3 20090507**; AU 2006248138 A1 20061123; AU 2006248138 B2 20110512; BR PI0609913 A2 20100511; BR PI0609913 B1 20190618; CA 2605678 A1 20061123; CA 2605678 C 20100914; CN 101516696 A 20090826; CN 101516696 B 20130717; EP 1879779 A2 20080123; EP 1879779 A4 20150819; EP 1879779 B1 20160713; US 2009218879 A1 20090903; US 7631949 B2 20091215; ZA 200710733 B 20090429

DOCDB simple family (application)
US 2006003763 W 20060203; AU 2006248138 A 20060203; BR PI0609913 A 20060203; CA 2605678 A 20060203; CN 200680015950 A 20060203; EP 06720193 A 20060203; US 91374706 A 20060203; ZA 200710733 A 20071210